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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/831,842	08/21/2001	Rolf Hertling	AZ.2657	. 9787		
30996	7590 07/31/2003					
	. BECKER & ASSOC	EXAMINER				
707 HIGHWAY 66 EAST SUITE B			CONNOLLY, PATRICK J			
TIJERAS, NN	1 87059		ART UNIT	PAPER NUMBER		
		•	2877			
			DATE MAILED: 07/31/2003	DATE MAILED: 07/31/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)					
2		09/831,842		HERTLING ET AL.					
	Office Action Summary	Examiner		Art Unit					
		Patrick J Connoll	у	2877	4				
Period fo	The MAILING DATE of this communication app or Reply			correspondence add	iress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)🛛	Responsive to communication(s) filed on 13.	<u>June 2003</u> .							
2a)⊠	This action is FINAL. 2b) Th	is action is non-fi	nal.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4) 🖂	Claim(s) 11-19 is/are pending in the application	on.							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)									
6)⊠	6)⊠ Claim(s) <u>11-19</u> is/are rejected.								
7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) 🗌 🤈	The specification is objected to by the Examine	er.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12)☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) 🗌 A	Acknowledgment is made of a claim for domest	ic priority under 3	5 U.S.C. § 119(e) (to a provisional	application).				
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachmen	•	-							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4)		y (PTO-413) Paper No(Patent Application (PT0					
U.S. Patent and T PTO-326 (Re		ction Summary		Part of Paper No. 10	-				

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DETAILED ACTION

Response to Amendment

The applicant is reminded that in order to overcome a rejection under 35 U.S.C. 102 (e), an affidavit or declaration must be submitted in compliance with 37 CFR 1.131.

The oath or declaration is missing. A new oath or declaration in compliance with 37 CFR 1.131 identifying this application by number and filing date is required. See MPEP §§ 715.04.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 11 and 12 rejected under 35 U.S.C. 102(e) as being clearly anticipated by U.S. Patent No. 6,281,974 to Scheiner et al. (hereto referred to as Scheiner).

As to claim 11, Scheiner discloses a method and apparatus for measurements of patterned structures including:

measuring at least one of the reflection and the transmission light intensity values of zero order of diffraction as a function of wavelength (see col. 2, lines 61-64);

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calculating the at least one of reflection and transmission light intensity values using an iteration model in which the individual layer parameters and the geometric dimensions of a substrate are included as further parameters (see cols. 7-11); and

modifying the parameters to effect correspondence between the measured and calculated values (see bottom of col. 9).

As to claim 12, Scheiner discloses determining the geometric dimensions of said geometric structures (see bottom of col. 9, top of col. 10).

As to claim 13, Scheiner discloses that this method for use in regulating production processes (see col. 3, lines 4-13).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,281,974 to Scheiner et al. (hereto referred to as Scheiner).

As to claims 14-19, while Scheiner does not teach specific structures or media to be measured by the disclosed method and apparatus, it would have been obvious to one of ordinary skill in the art at the time of invention to apply Scheiner's apparatus and method to measure geometric characteristics of optical data storage media, as these are notoriously well-known substrate structures.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J Connolly whose telephone number is 703.305.4397. The examiner can normally be reached on 9 am-5.30 pm ... Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 703.308.4881. The fax phone numbers for the organization where this application or proceeding is assigned are 703.746.7722 for regular communications and 703.746.7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.0956.

pjc **MC** July 16, 2003

> Samuel A. Turner Primary Examiner